



**STATE OF TENNESSEE
DEPARTMENT OF HEALTH
ENVIRONMENTAL LABORATORIES**

TDH: Lab Services JRL
Lab Services - Jackson Regional Lab
Jackson, TN 38301
731-426-0686

TDH: Lab Services KRL
Lab Services - Knoxville Regional Lab
Knoxville, TN 37920
865-549-5201

TDH: Lab Services NCL
Lab Services - Nashville Central Lab
Nashville, TN 37243
615-262-6300

Sent To: Greg Denton
TDEC-WPC
6th Floor, L & C Tower Annex
401 Church Street
Nashville, TN 37243-1534

Michael Atchley
TDEC-WPC
Knoxville FO
3711 Middlebrook Pike
Knoxville, TN 37921

Lab ID: K00002262
Knoxville Regional Laboratory

Sampling Agency: TDEC: Division of Water Pollution Control

Billing Code: 327.34-20

This is to certify that the following results were determined using
good laboratory practices and in accordance with federal or state
approved methodologies.


Analytical Supervisor

Lab-Sample Number: K00002262001
Project Name: TVA-Ash Spill
Sample Description: Emory River mile 2.1
Sampler Project Name: TVA Ash Spill
Project Site No.: 2
Station No.: EMORY002.1RO
Date/Time Collected: 04/02/2009 10:21
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date:
Date/Time Received: 04/02/2009 14:25
Received By: Ken Hitchman

Field Determinations

pH: 7.34 pH Units
Chlorine, residual:
Conductivity: 45 uMHO
Temperature: 11.76
Dissolved Oxygen: 11.59 mg/L
Other:
Flow: CFS

TEST: Alkalinity, Total		METHOD: EPA 310.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Alkalinity	9.8J	mg/L	3.8	10	M Chen	4/3/2009

TEST: Hardness, Calcium		METHOD: SM 3500-Ca D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Calcium hardness	15	mg/L	0.7	1	M Chen	4/3/2009

TEST: Residue, Settleable		METHOD: SM 2540F				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Settleable Residue	U	ml/L	0.10	0.10	P Leathers	4/3/2009

TEST: Residue, Suspended		METHOD: SM 2540D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Suspended Solids	U	mg/L	10	10	A Peebles	4/3/2009

J - Estimated value between MDL and MQL

MDL - Method Detection Limit

MQL - Method Quantitation Limit

U - Undetected

Lab-Sample Number:	K00002262002	Field Determinations	
Project Name:	TVA-Ash Spill	pH:	7.03 pH Units
Sample Description:	100' downriver from dredge 150' from shore 10'	Chlorine, residual:	
Sampler Project Name:	TVA Ash Spill	Conductivity:	44 uMHO
Project Site No.:	2A	Temperature:	11.33
Station No.:		Dissolved Oxygen:	11.79 mg/L
Date/Time Collected:	04/02/2009 10:33	Other:	
Sampler's Name:	Geoff Klein	Flow:	CFS
County:	ROANE - 73		
Sample Matrix:	Water		
EFO:	Knoxville		
Sampling Agency:	TDEC-WPC		
Billing Code:	327.34-20		
Send Report To:	TDEC-WPC		
Agency Invoiced:	TDEC-WPC		
Priority Date:			
Date/Time Received:	04/02/2009 14:25		
Received By:	Ken Hitchman		

TEST: Alkalinity, Total		METHOD: EPA 310.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Alkalinity	12	mg/L	3.8	10	M Chen	4/3/2009

TEST: Hardness, Calcium		METHOD: SM 3500-Ca D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Calcium hardness	12	mg/L	0.7	1	M Chen	4/3/2009

TEST: Residue, Settleable		METHOD: SM 2540F				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Settleable Residue	U	ml/L	0.10	0.10	P Leathers	4/3/2009

TEST: Residue, Suspended		METHOD: SM 2540D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Suspended Solids	U	mg/L	10	10	A Peebles	4/3/2009

J - Estimated value between MDL and MQL
MDL - Method Detection Limit
MQL - Method Quantitation Limit
U - Undetected

Lab-Sample Number:	K00002262003	Field Determinations	
Project Name:	TVA-Ash Spill	pH:	6.97 pH Units
Sample Description:	200' upstream from weir 150' from shore 10' lak	Chlorine, residual:	
Sampler Project Name:	TVA Ash Spill	Conductivity:	44 uMHO
Project Site No.:	2B	Temperature:	11.31
Station No.:		Dissolved Oxygen:	11.75 mg/L
Date/Time Collected:	04/02/2009 10:42	Other:	
Sampler's Name:	Geoff Klein	Flow:	CFS
County:	ROANE - 73		
Sample Matrix:	Water		
EFO:	Knoxville		
Sampling Agency:	TDEC-WPC		
Billing Code:	327.34-20		
Send Report To:	TDEC-WPC		
Agency Invoiced:	TDEC-WPC		
Priority Date:			
Date/Time Received:	04/02/2009 14:25		
Received By:	Ken Hitchman		

TEST: Alkalinity, Total		METHOD: EPA 310.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Alkalinity	12	mg/L	3.8	10	M Chen	4/3/2009

TEST: Hardness, Calcium		METHOD: SM 3500-Ca D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Calcium hardness	14	mg/L	0.7	1	M Chen	4/3/2009

TEST: Residue, Settleable		METHOD: SM 2540F				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Settleable Residue	U	ml/L	0.10	0.10	P Leathers	4/3/2009

TEST: Residue, Suspended		METHOD: SM 2540D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Suspended Solids	10	mg/L	10	10	A Peebles	4/3/2009

J - Estimated value between MDL and MQL
MDL - Method Detection Limit
MQL - Method Quantitation Limit
U - Undetected

Lab-Sample Number: K00002262004
Project Name: TVA-Ash Spill
Sample Description: Emory River mile 1.7
Sampler Project Name: TVA Ash Spill
Project Site No.: 3
Station No.: EMORY001.7RO
Date/Time Collected: 04/02/2009 10:57
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date:
Date/Time Received: 04/02/2009 14:25
Received By: Ken Hitchman

Field Determinations
pH: 7.01 pH Units
Chlorine, residual:
Conductivity: 45 uMHO
Temperature: 11.22
Dissolved Oxygen: 11.68 mg/L
Other:
Flow: CFS

TEST: Alkalinity, Total		METHOD: EPA 310.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Alkalinity	13	mg/L	3.8	10	M Chen	4/3/2009

TEST: Hardness, Calcium		METHOD: SM 3500-Ca D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Calcium hardness	12	mg/L	0.7	1	M Chen	4/3/2009

TEST: Residue, Settleable		METHOD: SM 2540F				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Settleable Residue	U	ml/L	0.10	0.10	P Leathers	4/3/2009

TEST: Residue, Suspended		METHOD: SM 2540D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Suspended Solids	U	mg/L	10	10	A Peebles	4/3/2009

J - Estimated value between MDL and MQL
MDL - Method Detection Limit
MQL - Method Quantitation Limit
U - Undetected

Lab-Sample Number: K00002262005
Project Name: TVA-Ash Spill
Sample Description: Emory River mile 0.1
Sampler Project Name: TVA Ash Spill
Project Site No.: 4
Station No.: EMORY000.1RO
Date/Time Collected: 04/02/2009 11:10
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date:
Date/Time Received: 04/02/2009 14:25
Received By: Ken Hitchman

Field Determinations
pH: 7.03 pH Units
Chlorine, residual:
Conductivity: 46 uMHO
Temperature: 12.56
Dissolved Oxygen: 11.79 mg/L
Other:
Flow: CFS

TEST: Alkalinity, Total		METHOD: EPA 310.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Alkalinity	87	mg/L	3.8	10	M Chen	4/3/2009

TEST: Hardness, Calcium		METHOD: SM 3500-Ca D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Calcium hardness	14	mg/L	0.7	1	M Chen	4/3/2009

TEST: Residue, Settleable		METHOD: SM 2540F				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Settleable Residue	U	ml/L	0.10	0.10	P Leathers	4/3/2009

TEST: Residue, Suspended		METHOD: SM 2540D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Suspended Solids	U	mg/L	10	10	A Peebles	4/3/2009

J - Estimated value between MDL and MQL

MDL - Method Detection Limit

MQL - Method Quantitation Limit

U - Undetected

Lab-Sample Number: K00002262006
Project Name: TVA-Ash Spill
Sample Description: Clinch River mile 2.3 near Hwy 70 bridge
Sampler Project Name: TVA Ash Spill
Project Site No.: 5
Station No.: CLINC002.3RO
Date/Time Collected: 04/02/2009 11:24
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date:
Date/Time Received: 04/02/2009 14:25
Received By: Ken Hitchman

Field Determinations
pH: 7.59 pH Units
Chlorine, residual:
Conductivity: 122 uMHO
Temperature: 12.97
Dissolved Oxygen: 11.87 mg/L
Other:
Flow: CFS

TEST: Alkalinity, Total		METHOD: EPA 310.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Alkalinity	66	mg/L	3.8	10	M Chen	4/3/2009

TEST: Hardness, Calcium		METHOD: SM 3500-Ca D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Calcium hardness	53	mg/L	0.7	1	M Chen	4/3/2009

TEST: Residue, Settleable		METHOD: SM 2540F				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Settleable Residue	U	ml/L	0.10	0.10	P Leathers	4/3/2009

TEST: Residue, Suspended		METHOD: SM 2540D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Suspended Solids	U	mg/L	10	10	A Peebles	4/3/2009

J - Estimated value between MDL and MQL

MDL - Method Detection Limit

MQL - Method Quantitation Limit

U - Undetected

Lab-Sample Number:	K00002262007	Field Determinations	
Project Name:	TVA-Ash Spill	pH:	7.84 pH Units
Sample Description:	Clinch River mile 4.5 near Sugar Grove Valley R	Chlorine, residual:	
Sampler Project Name:	TVA Ash Spill	Conductivity:	215 uMHO
Project Site No.:	6	Temperature:	12.68
Station No.:	CLINC004.5RO	Dissolved Oxygen:	11.73 mg/L
Date/Time Collected:	04/02/2009 11:38	Other:	
Sampler's Name:	Geoff Klein	Flow:	CFS
County:	ROANE - 73		
Sample Matrix:	Water		
EFO:	Knoxville		
Sampling Agency:	TDEC-WPC		
Billing Code:	327.34-20		
Send Report To:	TDEC-WPC		
Agency Invoiced:	TDEC-WPC		
Priority Date:			
Date/Time Received:	04/02/2009 14:25		
Received By:	Ken Hitchman		

TEST: Alkalinity, Total		METHOD: EPA 310.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Alkalinity	110	mg/L	3.8	10	M Chen	4/3/2009

TEST: Hardness, Calcium		METHOD: SM 3500-Ca D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Calcium hardness	83	mg/L	0.7	1	M Chen	4/3/2009

TEST: Residue, Settleable		METHOD: SM 2540F				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Settleable Residue	U	ml/L	0.10	0.10	P Leathers	4/3/2009

TEST: Residue, Suspended		METHOD: SM 2540D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Suspended Solids	U	mg/L	10	10	A Peeples	4/3/2009

J - Estimated value between MDL and MQL
MDL - Method Detection Limit
MQL - Method Quantitation Limit
U - Undetected

Lab-Sample Number: K00002262008
Project Name: TVA-Ash Spill
Sample Description: Emory River mile 12.1
Sampler Project Name: TVA Ash Spill
Project Site No.: 1
Station No.: EMORY012.1RO
Date/Time Collected: 04/02/2009 12:32
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date:
Date/Time Received: 04/02/2009 14:25
Received By: Ken Hitchman

Field Determinations
pH: 7.8 pH Units
Chlorine, residual:
Conductivity: 49 uMHO
Temperature: 13.25
Dissolved Oxygen: 11.17 mg/L
Other:
Flow: CFS

TEST: Alkalinity, Total		METHOD: EPA 310.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Alkalinity	11	mg/L	3.8	10	M Chen	4/3/2009

TEST: Hardness, Calcium		METHOD: SM 3500-Ca D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Calcium hardness	12	mg/L	0.7	1	M Chen	4/3/2009

TEST: Residue, Settleable		METHOD: SM 2540F				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Settleable Residue	U	ml/L	0.10	0.10	P Leathers	4/3/2009

TEST: Residue, Suspended		METHOD: SM 2540D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Suspended Solids	U	mg/L	10	10	A Peebles	4/3/2009

J - Estimated value between MDL and MQL
MDL - Method Detection Limit
MQL - Method Quantitation Limit
U - Undetected



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3711 Middlebrook Pike
Knoxville, TN 37921

Lab ID: K00002262
Knoxville Regional Laboratory

Sampling Agency: TDEC: Division of Water Pollution Control

Billing Code: 327.34-20

Preliminary Report

Results on this report should only be considered preliminary, and the lab should be contacted for Actual Final Results.

Preliminary Report

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Lab-Sample Number:	K000Q2262001	Field Determinations	
Project Name:	TVA-Ash Spill	pH:	7.34 pH Units
Sample Description:	Emory River mile 2.1	Chlorine, residual:	
Sampler Project Name:	TVA Ash Spill	Conductivity:	45 uMHO
Project Site No.:	2	Temperature:	11.76
Station No.:	EMORY002.1RO	Dissolved Oxygen:	11.59 mg/L
Date/Time Collected:	04/02/2009 10:21	Other:	
Sampler's Name:	Geoff Klein	Flow:	CFS
County:	ROANE - 73		
Sample Matrix:	Water		
EFO:	Knoxville		
Sampling Agency:	TDEC-WPC		
Billing Code:	327.34-20		
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TEST: Digestion Metals		METHOD: EPA 200.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Digestion Metals	04/07/2009				A Bass	4/7/2009

TEST: ICP		METHOD: EPA 200.7				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Iron	380	µg/L	2.9	10	A Wilson	4/8/2009

TEST: ICP-MS		METHOD: EPA 200.8				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Aluminum	290	µg/L	12.8	20	M Pattanayek	4/7/2009
Antimony	3.6	µg/L	0.33	1	M Pattanayek	4/7/2009
Arsenic	0.94J	µg/L	0.93	5	M Pattanayek	4/7/2009
Barium	28	µg/L	2.5	5	M Pattanayek	4/7/2009
Beryllium	U	µg/L	0.11	1	M Pattanayek	4/7/2009
Cadmium	U	µg/L	0.41	1	M Pattanayek	4/7/2009
Chromium	U	µg/L	2.0	5	M Pattanayek	4/7/2009
Cobalt	0.43J	µg/L	0.04	1	M Pattanayek	4/7/2009
Copper	0.79J	µg/L	0.38	1	M Pattanayek	4/7/2009
Lead	0.31J	µg/L	0.10	1	M Pattanayek	4/7/2009
Manganese	43	µg/L	0.42	1	M Pattanayek	4/7/2009
Nickel	1.6	µg/L	0.25	1	M Pattanayek	4/7/2009
Selenium	U	µg/L	1.3	5	M Pattanayek	4/8/2009
Silver	0.03J	µg/L	0.03	0.25	M Pattanayek	4/7/2009
Thallium	0.33J	µg/L	0.03	1	M Pattanayek	4/7/2009
Vanadium	14	µg/L	3.4	5	M Pattanayek	4/7/2009
Zinc	3.7J	µg/L	1.9	5	M Pattanayek	4/7/2009

Preliminary Report

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Lab-Sample Number:	K00002262001	Field Determinations	
Project Name:	TVA-Ash Spill	pH:	7.34 pH Units
Sample Description:	Emory River mile 2.1	Chlorine, residual:	
Sampler Project Name:	TVA Ash Spill	Conductivity:	45 uMHO
Project Site No.:	2	Temperature:	11.76
Station No.:	EMORY002.1RO	Dissolved Oxygen:	11.59 mg/L
Date/Time Collected:	04/02/2009 10:21	Other:	
Sampler's Name:	Geoff Klein	Flow:	CFS
County:	ROANE - 73		
Sample Matrix:	Water		
EFO:	Knoxville		
Sampling Agency:	TDEC-WPC		
Billing Code:	327.34-20		
Send Report To:	TDEC-WPC		
Agency Invoiced:	TDEC-WPC		
Priority Date:			
Date/Time Received:	04/02/2009 14:25		
Received By:	Ken Hitchman		

TEST: Mercury		METHOD: EPA 245.1				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Mercury	PENDING	µg/L	0.13		NOT REPORTED	/ /

J - Estimated value between MDL and MQL

MDL - Method Detection Limit

MQL - Method Quantitation Limit

U - Undetected

Preliminary Report

Results on this report should only be considered preliminary, and the lab should be contacted for Actual Final Results.

Lab-Sample Number:	K00002262002	Field Determinations	
Project Name:	TVA-Ash Spill	pH:	7.03 pH Units
Sample Description:	100' downriver from dredge 150' from shore 10'	Chlorine, residual:	
Sampler Project Name:	TVA Ash Spill	Conductivity:	44 uMHO
Project Site No.:	2A	Temperature:	11.33
Station No.:		Dissolved Oxygen:	11.79 mg/L
Date/Time Collected:	04/02/2009 10:33	Other:	
Sampler's Name:	Geoff Klein	Flow:	CFS
County:	ROANE - 73		
Sample Matrix:	Water		
EFO:	Knoxville		
Sampling Agency:	TDEC-WPC		
Billing Code:	327.34-20		
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Agency Invoiced:	TDEC-WPC		
Priority Date:			
Date/Time Received:	04/02/2009 14:25		
Received By:	Ken Hitchman		

TEST: Digestion Metals		METHOD: EPA 200.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Digestion Metals	04/07/2009				A Bass	4/7/2009

TEST: ICP		METHOD: EPA 200.7				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Iron	790	µg/L	2.9	10	A Wilson	4/8/2009

TEST: ICP-MS		METHOD: EPA 200.8				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Aluminum	1400	µg/L	64.0	100	M Pattanayek	4/8/2009
Antimony	3.4	µg/L	0.33	1	M Pattanayek	4/7/2009
Arsenic	3.0J	µg/L	0.93	5	M Pattanayek	4/7/2009
Barium	46	µg/L	2.5	5	M Pattanayek	4/7/2009
Beryllium	0.21J	µg/L	0.11	1	M Pattanayek	4/7/2009
Cadmium	U	µg/L	0.41	1	M Pattanayek	4/7/2009
Chromium	U	µg/L	2.0	5	M Pattanayek	4/7/2009
Cobalt	1.0	µg/L	0.04	1	M Pattanayek	4/7/2009
Copper	5.0	µg/L	0.38	1	M Pattanayek	4/7/2009
Lead	1.8	µg/L	0.10	1	M Pattanayek	4/7/2009
Manganese	42	µg/L	0.42	1	M Pattanayek	4/7/2009
Nickel	3.0	µg/L	0.25	1	M Pattanayek	4/7/2009
Selenium	U	µg/L	1.3	5	M Pattanayek	4/7/2009
Silver	0.03J	µg/L	0.03	0.25	M Pattanayek	4/7/2009
Thallium	0.14J	µg/L	0.03	1	M Pattanayek	4/7/2009
Vanadium	19	µg/L	3.4	5	M Pattanayek	4/7/2009
Zinc	6.7	µg/L	1.9	5	M Pattanayek	4/7/2009

Preliminary Report

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Lab-Sample Number:	K00002262002	Field Determinations	
Project Name:	TVA-Ash Spill	pH:	7.03 pH Units
Sample Description:	100' downriver from dredge 150' from shore 10'	Chlorine, residual:	
Sampler Project Name:	TVA Ash Spill	Conductivity:	44 uMHO
Project Site No.:	2A	Temperature:	11.33
Station No.:		Dissolved Oxygen:	11.79 mg/L
Date/Time Collected:	04/02/2009 10:33	Other:	
Sampler's Name:	Geoff Klein	Flow:	CFS
County:	ROANE - 73		
Sample Matrix:	Water		
EFO:	Knoxville		
Sampling Agency:	TDEC-WPC		
Billing Code:	327.34-20		
Send Report To:	TDEC-WPC		
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Priority Date:			
Date/Time Received:	04/02/2009 14:25		
Received By:	Ken Hitchman		

TEST: Mercury		METHOD: EPA 245.1				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Mercury	PENDING	µg/L	0.13		NOT REPORTED	/ /

J - Estimated value between MDL and MQL

MDL - Method Detection Limit

MQL - Method Quantitation Limit

U - Undetected

Preliminary Report

Results on this report should only be considered preliminary, and the lab should be contacted for Actual Final Results.

Lab-Sample Number:	K00002262003	Field Determinations	
Project Name:	TVA-Ash Spill	pH:	6.97 pH Units
Sample Description:	200' upstream from weir 150' from shore 10' lak	Chlorine, residual:	
Sampler Project Name:	TVA Ash Spill	Conductivity:	44 uMHO
Project Site No.:	2B	Temperature:	11.31
Station No.:		Dissolved Oxygen:	11.75 mg/L
Date/Time Collected:	04/02/2009 10:42	Other:	
Sampler's Name:	Geoff Klein	Flow:	CFS
County:	ROANE - 73		
Sample Matrix:	Water		
EFO:	Knoxville		
Sampling Agency:	TDEC-WPC		
Billing Code:	327.34-20		
Send Report To:	TDEC-WPC		
Agency Invoiced:	TDEC-WPC		
Priority Date:			
Date/Time Received:	04/02/2009 14:25		
Received By:	Ken Hitchman		

TEST: Digestion Metals		METHOD: EPA 200.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Digestion Metals	04/07/2009				A Bass	4/7/2009

TEST: ICP		METHOD: EPA 200.7				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Iron	440	µg/L	2.9	10	A Wilson	4/8/2009

TEST: ICP-MS		METHOD: EPA 200.8				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Aluminum	600	µg/L	32.0	50	M Pattanayek	4/8/2009
Antimony	3.2	µg/L	0.33	1	M Pattanayek	4/7/2009
Arsenic	1.9J	µg/L	0.93	5	M Pattanayek	4/7/2009
Barium	32	µg/L	2.5	5	M Pattanayek	4/7/2009
Beryllium	U	µg/L	0.11	1	M Pattanayek	4/7/2009
Cadmium	U	µg/L	0.41	1	M Pattanayek	4/7/2009
Chromium	U	µg/L	2.0	5	M Pattanayek	4/7/2009
Cobalt	0.58J	µg/L	0.04	1	M Pattanayek	4/7/2009
Copper	1.8	µg/L	0.38	1	M Pattanayek	4/7/2009
Lead	0.67J	µg/L	0.10	1	M Pattanayek	4/7/2009
Manganese	43	µg/L	0.42	1	M Pattanayek	4/7/2009
Nickel	2.0	µg/L	0.25	1	M Pattanayek	4/7/2009
Selenium	U	µg/L	1.3	5	M Pattanayek	4/7/2009
Silver	U	µg/L	0.03	0.25	M Pattanayek	4/8/2009
Thallium	0.03J	µg/L	0.03	1	M Pattanayek	4/7/2009
Vanadium	16	µg/L	3.4	5	M Pattanayek	4/7/2009
Zinc	4.7J	µg/L	1.9	5	M Pattanayek	4/7/2009

Preliminary Report

Results on this report should only be considered preliminary, and the lab should be contacted for Actual Final Results.

Lab-Sample Number:	K00002262003	Field Determinations	
Project Name:	TVA-Ash Spill	pH:	6.97 pH Units
Sample Description:	200' upstream from weir 150' from shore 10' lak	Chlorine, residual:	
Sampler Project Name:	TVA Ash Spill	Conductivity:	44 uMHO
Project Site No.:	2B	Temperature:	11.31
Station No.:		Dissolved Oxygen:	11.75 mg/L
Date/Time Collected:	04/02/2009 10:42	Other:	
Sampler's Name:	Geoff Klein	Flow:	CFS
County:	ROANE - 73		
Sample Matrix:	Water		
EFO:	Knoxville		
Sampling Agency:	TDEC-WPC		
Billing Code:	327.34-20		
Send Report To:	TDEC-WPC		
Agency Invoiced:	TDEC-WPC		
Priority Date:			
Date/Time Received:	04/02/2009 14:25		
Received By:	Ken Hitchman		

TEST: Mercury		METHOD: EPA 245.1				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Mercury	PENDING	µg/L	0.13		NOT REPORTED	/ /

J - Estimated value between MDL and MQL

MDL - Method Detection Limit

MQL - Method Quantitation Limit

U - Undetected

Preliminary Report

Results on this report should only be considered preliminary, and the lab should be contacted for Actual Final Results.

Lab-Sample Number:	K00002262004	Field Determinations	
Project Name:	TVA-Ash Spill	pH:	7.01 pH Units
Sample Description:	Emory River mile 1.7	Chlorine, residual:	
Sampler Project Name:	TVA Ash Spill	Conductivity:	45 uMHO
Project Site No.:	3	Temperature:	11.22
Station No.:	EMORY001.7RO	Dissolved Oxygen:	11.68 mg/L
Date/Time Collected:	04/02/2009 10:57	Other:	
Sampler's Name:	Geoff Klein	Flow:	CFS
County:	ROANE - 73		
Sample Matrix:	Water		
EFO:	Knoxville		
Sampling Agency:	TDEC-WPC		
Billing Code:	327.34-20		
Send Report To:	TDEC-WPC		
Agency Invoiced:	TDEC-WPC		
Priority Date:			
Date/Time Received:	04/02/2009 14:25		
Received By:	Ken Hitchman		

TEST: Digestion Metals		METHOD: EPA 200.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Digestion Metals	04/07/2009				A Bass	4/7/2009

TEST: ICP		METHOD: EPA 200.7				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Iron	330	µg/L	2.9	10	A Wilson	4/8/2009

TEST: ICP-MS		METHOD: EPA 200.8				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Aluminum	320	µg/L	12.8	20	M Pattanayek	4/8/2009
Antimony	3.1	µg/L	0.33	1	M Pattanayek	4/7/2009
Arsenic	U	µg/L	0.93	5	M Pattanayek	4/7/2009
Barium	28	µg/L	2.5	5	M Pattanayek	4/7/2009
Beryllium	U	µg/L	0.11	1	M Pattanayek	4/7/2009
Cadmium	U	µg/L	0.41	1	M Pattanayek	4/7/2009
Chromium	U	µg/L	2.0	5	M Pattanayek	4/7/2009
Cobalt	0.37J	µg/L	0.04	1	M Pattanayek	4/7/2009
Copper	0.75J	µg/L	0.38	1	M Pattanayek	4/7/2009
Lead	0.27J	µg/L	0.10	1	M Pattanayek	4/7/2009
Manganese	41	µg/L	0.42	1	M Pattanayek	4/7/2009
Nickel	1.5	µg/L	0.25	1	M Pattanayek	4/7/2009
Selenium	U	µg/L	1.3	5	M Pattanayek	4/7/2009
Silver	U	µg/L	0.03	0.25	M Pattanayek	4/8/2009
Thallium	U	µg/L	0.03	1	M Pattanayek	4/7/2009
Vanadium	17	µg/L	3.4	5	M Pattanayek	4/7/2009
Zinc	3.4J	µg/L	1.9	5	M Pattanayek	4/7/2009

Preliminary Report

Results on this report should only be considered preliminary, and the lab should be contacted for Actual Final Results.

Lab-Sample Number:	K00002262004	Field Determinations		
Project Name:	TVA-Ash Spill	pH:	7.01	pH Units
Sample Description:	Emory River mile 1.7	Chlorine, residual:		
Sampler Project Name:	TVA Ash Spill	Conductivity:	45	uMHO
Project Site No.:	3	Temperature:	11.22	
Station No.:	EMORY001.7RO	Dissolved Oxygen:	11.68	mg/L
Date/Time Collected:	04/02/2009 10:57	Other:		
Sampler's Name:	Geoff Klein	Flow:		CFS
County:	ROANE - 73			
Sample Matrix:	Water			
EFO:	Knoxville			
Sampling Agency:	TDEC-WPC			
Billing Code:	327.34-20			
Send Report To:	TDEC-WPC			
Agency Invoiced:	TDEC-WPC			
Priority Date:				
Date/Time Received:	04/02/2009 14:25			
Received By:	Ken Hitchman			

TEST: Mercury		METHOD: EPA 245.1				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Mercury	PENDING	µg/L	0.13		NOT REPORTED	/ /

J - Estimated value between MDL and MQL

MDL - Method Detection Limit

MQL - Method Quantitation Limit

U - Undetected

Preliminary Report

Results on this report should only be considered preliminary, and the lab should be contacted for Actual Final Results.

Lab-Sample Number:	K00002262005	Field Determinations	
Project Name:	TVA-Ash Spill	pH:	7.03 pH Units
Sample Description:	Emory River mile 0.1	Chlorine, residual:	
Sampler Project Name:	TVA Ash Spill	Conductivity:	46 uMHO
Project Site No.:	4	Temperature:	12.56
Station No.:	EMORY000.1RO	Dissolved Oxygen:	11.79 mg/L
Date/Time Collected:	04/02/2009 11:10	Other:	
Sampler's Name:	Geoff Klein	Flow:	CFS
County:	ROANE - 73		
Sample Matrix:	Water		
EFO:	Knoxville		
Sampling Agency:	TDEC-WPC		
Billing Code:	327.34-20		
Send Report To:	TDEC-WPC		
Agency Invoiced:	TDEC-WPC		
Priority Date:			
Date/Time Received:	04/02/2009 14:25		
Received By:	Ken Hitchman		

TEST: Digestion Metals		METHOD: EPA 200.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Digestion Metals	04/07/2009				A Bass	4/7/2009

TEST: ICP		METHOD: EPA 200.7				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Iron	360	µg/L	2.9	10	A Wilson	4/8/2009

TEST: ICP-MS		METHOD: EPA 200.8				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Aluminum	300	µg/L	32.0	50	M Pattanayek	4/8/2009
Antimony	3.1	µg/L	0.33	1	M Pattanayek	4/7/2009
Arsenic	1.5J	µg/L	0.93	5	M Pattanayek	4/7/2009
Barium	30	µg/L	2.5	5	M Pattanayek	4/7/2009
Beryllium	U	µg/L	0.11	1	M Pattanayek	4/7/2009
Cadmium	U	µg/L	0.41	1	M Pattanayek	4/7/2009
Chromium	U	µg/L	2.0	5	M Pattanayek	4/7/2009
Cobalt	0.37J	µg/L	0.04	1	M Pattanayek	4/7/2009
Copper	1.2	µg/L	0.38	1	M Pattanayek	4/7/2009
Lead	0.32J	µg/L	0.10	1	M Pattanayek	4/7/2009
Manganese	37	µg/L	0.42	1	M Pattanayek	4/7/2009
Nickel	1.6	µg/L	0.25	1	M Pattanayek	4/7/2009
Selenium	1.4J	µg/L	1.3	5	M Pattanayek	4/7/2009
Silver	U	µg/L	0.03	0.25	M Pattanayek	4/8/2009
Thallium	U	µg/L	0.03	1	M Pattanayek	4/7/2009
Vanadium	14	µg/L	3.4	5	M Pattanayek	4/7/2009
Zinc	4.3J	µg/L	1.9	5	M Pattanayek	4/7/2009

Preliminary Report

Results on this report should only be considered preliminary, and the lab should be contacted for Actual Final Results.

Lab-Sample Number:	K00002262005	Field Determinations	
Project Name:	TVA-Ash Spill	pH:	7.03 pH Units
Sample Description:	Emory River mile 0.1	Chlorine, residual:	
Sampler Project Name:	TVA Ash Spill	Conductivity:	46 uMHO
Project Site No.:	4	Temperature:	12.56
Station No.:	EMORY000.1RO	Dissolved Oxygen:	11.79 mg/L
Date/Time Collected:	04/02/2009 11:10	Other:	
Sampler's Name:	Geoff Klein	Flow:	CFS
County:	ROANE - 73		
Sample Matrix:	Water		
EFO:	Knoxville		
Sampling Agency:	TDEC-WPC		
Billing Code:	327.34-20		
Send Report To:	TDEC-WPC		
Agency Invoiced:	TDEC-WPC		
Priority Date:			
Date/Time Received:	04/02/2009 14:25		
Received By:	Ken Hitchman		

TEST: Mercury		METHOD: EPA 245.1				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Mercury	PENDING	µg/L	0.13		NOT REPORTED	/ /

J - Estimated value between MDL and MQL

MDL - Method Detection Limit

MQL - Method Quantitation Limit

U - Undetected

Preliminary Report

Results on this report should only be considered preliminary, and the lab should be contacted for Actual Final Results.

Lab-Sample Number: K00002262006
Project Name: TVA-Ash Spill
Sample Description: Clinch River mile 2.3 near Hwy 70 bridge
Sampler Project Name: TVA Ash Spill
Project Site No.: 5
Station No.: CLINC002.3RO
Date/Time Collected: 04/02/2009 11:24
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date:
Date/Time Received: 04/02/2009 14:25
Received By: Ken Hitchman

Field Determinations
pH: 7.59 pH Units
Chlorine, residual:
Conductivity: 122 uMHO
Temperature: 12.97
Dissolved Oxygen: 11.87 mg/L
Other:
Flow: CFS

TEST: Digestion Metals		METHOD: EPA 200.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Digestion Metals	04/07/2009				A Bass	4/7/2009

TEST: ICP		METHOD: EPA 200.7				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Iron	340	µg/L	2.9	10	A Wilson	4/8/2009

TEST: ICP-MS		METHOD: EPA 200.8				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Aluminum	350	µg/L	6.4	10	M Pattanayek	4/8/2009
Antimony	3.1	µg/L	0.33	1	M Pattanayek	4/7/2009
Arsenic	1.5J	µg/L	0.93	5	M Pattanayek	4/7/2009
Barium	35	µg/L	2.5	5	M Pattanayek	4/7/2009
Beryllium	U	µg/L	0.11	1	M Pattanayek	4/7/2009
Cadmium	U	µg/L	0.41	1	M Pattanayek	4/7/2009
Chromium	U	µg/L	2.0	5	M Pattanayek	4/7/2009
Cobalt	0.35J	µg/L	0.04	1	M Pattanayek	4/7/2009
Copper	1.7	µg/L	0.38	1	M Pattanayek	4/7/2009
Lead	0.37J	µg/L	0.10	1	M Pattanayek	4/7/2009
Manganese	32	µg/L	0.42	1	M Pattanayek	4/7/2009
Nickel	1.8	µg/L	0.25	1	M Pattanayek	4/7/2009
Selenium	U	µg/L	1.3	5	M Pattanayek	4/7/2009
Silver	U	µg/L	0.03	0.25	M Pattanayek	4/7/2009
Thallium	U	µg/L	0.03	1	M Pattanayek	4/7/2009
Vanadium	14	µg/L	3.4	5	M Pattanayek	4/7/2009
Zinc	3.9J	µg/L	1.9	5	M Pattanayek	4/7/2009

Preliminary Report

Results on this report should only be considered preliminary, and the lab should be contacted for Actual Final Results.

Lab-Sample Number:	K00002262006	Field Determinations	
Project Name:	TVA-Ash Spill	pH:	7.59 pH Units
Sample Description:	Clinch River mile 2.3 near Hwy 70 bridge	Chlorine, residual:	
Sampler Project Name:	TVA Ash Spill	Conductivity:	122 uMHO
Project Site No.:	5	Temperature:	12.97
Station No.:	CLINC002.3RO	Dissolved Oxygen:	11.87 mg/L
Date/Time Collected:	04/02/2009 11:24	Other:	
Sampler's Name:	Geoff Klein	Flow:	CFS
County:	ROANE - 73		
Sample Matrix:	Water		
EFO:	Knoxville		
Sampling Agency:	TDEC-WPC		
Billing Code:	327.34-20		
Send Report To:	TDEC-WPC		
Agency Invoiced:	TDEC-WPC		
Priority Date:			
Date/Time Received:	04/02/2009 14:25		
Received By:	Ken Hitchman		

TEST: Mercury		METHOD: EPA 245.1				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Mercury	PENDING	µg/L	0.13		NOT REPORTED	/ /

J - Estimated value between MDL and MQL

MDL - Method Detection Limit

MQL - Method Quantitation Limit

U - Undetected

Preliminary Report

Results on this report should only be considered preliminary, and the lab should be contacted for Actual Final Results.

Lab-Sample Number:	K00002262007	Field Determinations	
Project Name:	TVA-Ash Spill	pH:	7.84 pH Units
Sample Description:	Clinch River mile 4.5 near Sugar Grove Valley R	Chlorine, residual:	
Sampler Project Name:	TVA Ash Spill	Conductivity:	215 uMHO
Project Site No.:	6	Temperature:	12.68
Station No.:	CLINC004.5RO	Dissolved Oxygen:	11.73 mg/L
Date/Time Collected:	04/02/2009 11:38	Other:	
Sampler's Name:	Geoff Klein	Flow:	CFS
County:	ROANE - 73		
Sample Matrix:	Water		
EFO:	Knoxville		
Sampling Agency:	TDEC-WPC		
Billing Code:	327.34-20		
Send Report To:	TDEC-WPC		
Agency Invoiced:	TDEC-WPC		
Priority Date:			
Date/Time Received:	04/02/2009 14:25		
Received By:	Ken Hitchman		

TEST: Digestion Metals		METHOD: EPA 200.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Digestion Metals	04/07/2009				A Bass	4/7/2009

TEST: ICP		METHOD: EPA 200.7				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Iron	290	µg/L	2.9	10	A Wilson	4/8/2009

TEST: ICP-MS		METHOD: EPA 200.8				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Aluminum	220	µg/L	12.8	20	M Pattanayek	4/8/2009
Antimony	3.1	µg/L	0.33	1	M Pattanayek	4/7/2009
Arsenic	0.97J	µg/L	0.93	5	M Pattanayek	4/7/2009
Barium	35	µg/L	2.5	5	M Pattanayek	4/7/2009
Beryllium	U	µg/L	0.11	1	M Pattanayek	4/7/2009
Cadmium	U	µg/L	0.41	1	M Pattanayek	4/7/2009
Chromium	U	µg/L	2.0	5	M Pattanayek	4/7/2009
Cobalt	0.25J	µg/L	0.04	1	M Pattanayek	4/7/2009
Copper	1.2	µg/L	0.38	1	M Pattanayek	4/7/2009
Lead	0.26J	µg/L	0.10	1	M Pattanayek	4/7/2009
Manganese	33	µg/L	0.42	1	M Pattanayek	4/7/2009
Nickel	1.9	µg/L	0.25	1	M Pattanayek	4/7/2009
Selenium	U	µg/L	1.3	5	M Pattanayek	4/7/2009
Silver	U	µg/L	0.03	0.25	M Pattanayek	4/8/2009
Thallium	U	µg/L	0.03	1	M Pattanayek	4/7/2009
Vanadium	13	µg/L	3.4	5	M Pattanayek	4/7/2009
Zinc	3.0J	µg/L	1.9	5	M Pattanayek	4/7/2009

Preliminary Report

Results on this report should only be considered preliminary, and the lab should be contacted for Actual Final Results.

Lab-Sample Number:	K00002262007	Field Determinations	
Project Name:	TVA-Ash Spill	pH:	7.84 pH Units
Sample Description:	Clinch River mile 4.5 near Sugar Grove Valley R	Chlorine, residual:	
Sampler Project Name:	TVA Ash Spill	Conductivity:	215 uMHO
Project Site No.:	6	Temperature:	12.68
Station No.:	CLINC004.5RO	Dissolved Oxygen:	11.73 mg/L
Date/Time Collected:	04/02/2009 11:38	Other:	
Sampler's Name:	Geoff Klein	Flow:	CFS
County:	ROANE - 73		
Sample Matrix:	Water		
EFO:	Knoxville		
Sampling Agency:	TDEC-WPC		
Billing Code:	327.34-20		
Send Report To:	TDEC-WPC		
Agency Invoiced:	TDEC-WPC		
Priority Date:			
Date/Time Received:	04/02/2009 14:25		
Received By:	Ken Hitchman		

TEST: Mercury		METHOD: EPA 245.1				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Mercury	PENDING	µg/L	0.13		NOT REPORTED	/ /

J - Estimated value between MDL and MQL

MDL - Method Detection Limit

MQL - Method Quantitation Limit

U - Undetected

Preliminary Report

Results on this report should only be considered preliminary, and the lab should be contacted for Actual Final Results.

Lab-Sample Number:	K00002262008	Field Determinations	
Project Name:	TVA-Ash Spill	pH:	7.8 pH Units
Sample Description:	Emory River mile 12.1	Chlorine, residual:	
Sampler Project Name:	TVA Ash Spill	Conductivity:	49 uMHO
Project Site No.:	1	Temperature:	13.25
Station No.:	EMORY012.1RO	Dissolved Oxygen:	11.17 mg/L
Date/Time Collected:	04/02/2009 12:32	Other:	
Sampler's Name:	Geoff Klein	Flow:	CFS
County:	ROANE - 73		
Sample Matrix:	Water		
EFO:	Knoxville		
Sampling Agency:	TDEC-WPC		
Billing Code:	327.34-20		
Send Report To:	TDEC-WPC		
Agency Invoiced:	TDEC-WPC		
Priority Date:			
Date/Time Received:	04/02/2009 14:25		
Received By:	Ken Hitchman		

TEST: Digestion Metals		METHOD: EPA 200.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Digestion Metals	04/07/2009				A Bass	4/7/2009

TEST: ICP		METHOD: EPA 200.7				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Iron	160	µg/L	2.9	10	A Wilson	4/8/2009

TEST: ICP-MS		METHOD: EPA 200.8				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Aluminum	150	µg/L	6.4	10	M Pattanayek	4/7/2009
Antimony	3.1	µg/L	0.33	1	M Pattanayek	4/7/2009
Arsenic	U	µg/L	0.93	5	M Pattanayek	4/7/2009
Barium	25	µg/L	2.5	5	M Pattanayek	4/7/2009
Beryllium	U	µg/L	0.11	1	M Pattanayek	4/7/2009
Cadmium	U	µg/L	0.41	1	M Pattanayek	4/7/2009
Chromium	U	µg/L	2.0	5	M Pattanayek	4/7/2009
Cobalt	0.33J	µg/L	0.04	1	M Pattanayek	4/7/2009
Copper	0.84J	µg/L	0.38	1	M Pattanayek	4/7/2009
Lead	0.85J	µg/L	0.10	1	M Pattanayek	4/7/2009
Manganese	32	µg/L	0.42	1	M Pattanayek	4/7/2009
Nickel	1.5	µg/L	0.25	1	M Pattanayek	4/7/2009
Selenium	U	µg/L	1.3	5	M Pattanayek	4/8/2009
Silver	U	µg/L	0.03	0.25	M Pattanayek	4/7/2009
Thallium	U	µg/L	0.03	1	M Pattanayek	4/7/2009
Vanadium	13	µg/L	3.4	5	M Pattanayek	4/7/2009
Zinc	4.4J	µg/L	1.9	5	M Pattanayek	4/7/2009

Preliminary Report

Results on this report should only be considered preliminary, and the lab should be contacted for Actual Final Results.

Lab-Sample Number: K00002262008
Project Name: TVA-Ash Spill
Sample Description: Emory River mile 12.1
Sampler Project Name: TVA Ash Spill
Project Site No.: 1
Station No.: EMORY012.1RO
Date/Time Collected: 04/02/2009 12:32
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date:
Date/Time Received: 04/02/2009 14:25
Received By: Ken Hitchman

Field Determinations

pH: 7.8 pH Units
Chlorine, residual:
Conductivity: 49 uMHO
Temperature: 13.25
Dissolved Oxygen: 11.17 mg/L
Other:
Flow: CFS

TEST: Mercury

METHOD: EPA 245.1

ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Mercury	PENDING	µg/L	0.13		NOT REPORTED	/ /

J - Estimated value between MDL and MQL

MDL - Method Detection Limit

MQL - Method Quantitation Limit

U - Undetected